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IDENTIFIERS

Massachusetts

#### ABSTRACT

With the goal of bringing relevancy to the learning process, the Blue Hills Regional Technical Education Center in Canton, Massachusetts has developed an integrated curriculum relating career development laboratory instruction to theoretical instruction and applying the process to a health services cluster. The health services program provides an orientation to health careers with classroom instruction and laboratory practice at the secondary level. The course presents basic health and health occupation skills. An analysis of job performances, or occupational analysis (OA), is the curriculum base, which is then translated to performance objectives, and finally sequentially grouped into developmental learning hierarchies, forming laboratory instructional units. Related performance objectives paralleling laboratory instruction were developed by science, math, social studies, English, and foreign language teachers to produce integrated instructional units. (MW)

US DEPARTMENT OF MEALTH EDUCATION A WELFARE NATIONAL INSTITUTE OF EDUCATION
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### THE BLUE HILLS MODEL

A Regional Center Providing:

Comprehensive Programs in Vocational -Technical Education

> Curricula and Resources for a Career Educational Network

**Exploratory Options in Career Clusters** 

Volume II - A Health Services Curriculum



### THE BLUE HILLS REGIONAL VOCATIONAL SCHOOL DISTRICT COMMITTEE

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# AN INTERDISCIPLINARY CURRICULUM PROCESS FOR CAREER DEVELOPMENT

#### STUDENTS

A major portion of the original success experienced at Blue Hills in the school's development of a curriculum design for comprehensive vocational education, can be attributed to an innovative process which made use of a competency based curriculum geared to the specific needs of the individual student.

This process, called "Relevance," together with the basic educational philosophy that upon graduation all Blue Hills student. Thould be prepared to enter the world of work or continue their extraction beyond, has more than adequately responded to the product accountability of the institution's goals and objectives.

This relevant curriculum process at Blue Hills has emphasized the competency based task performance as a priority, and the supportive educational disciplines of mathematics, the sciences and the humanities have been interwoven around the common occupational core. This meaningful blend of the total subject matter, provided by a task force of mathematics, science, social studies, English and occupational teachers working together, exemplifies comprehensive education in its truest sense. And, when it is provided for the "whole child" within the confines of a single institution, as has been so aptly demonstrated, in the Blue Hills Collaborative Model, the writer believes this concept typifies "Career Education" in its intended form.

Volume I, The Satellite Plan, describes the rationale of the same successful regional vocational-technical center serving the comprehensive career educational needs of a variety of students in specific occupational programs at the regional center.



structure, the program philosophy, and the exploratory cluster concept, which are so do igned to provide for an additional number of students in their mental town high schools. These would be students who are not yet ready to make a commitment to either vocational education for college preparation and who would benefit greatly from such an experience.

The rationale for the Blue Hills Center sending staff and resources to the member town high schools, as opposed to the "skill center concept" of bussing students from center to member town high schools for their academic subject matter, should become more apparent as the reader reviews Volume II and the additional curriculum related series.

volume II, and the entire related curriculum series, represents the original core curriculum concept of the regional center refined by an interdiscipling team of academic and occupational educational experts in order to provide competency based behavioral performance objectives.

Project Relevance represents the combined efforts of the Center's occupational staff working in concert with the academic staff of the Randolph High School, a novel and successful collaborative effort for expanding career development options for 60% of the regional district secondary youth.

The Blue Hills Model curriculum efforts have now been replicated. The review by Massachusetts educators and represent a mere sampling of the process and an introduction to the format. The Regional District School Committee takes great pride in having had this opportunity to share with the readers their preliminary pilot efforts in Career Education Planning and Development.

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#### **ABSTRACT**

A Health Services Program designed to provide an introduction and orientation to health careers via the media of instruction and supervised clinical and/or laboratory practice, depending upon the individual's level ar aspirations within the field is the objective of this are. The course will:

- Prepare students in the basic principles for maintenance of sound physical and mental health.
- 2. Provide students with an understanding of current health
  concepts including the meaning
  and purpose of good community
  health.
- 3. Supply basic concepts of normal growth and development, and nutrition.
- 4. Provide a foundation in the physical and biological sciences.
- Iaboratory activity, to

  develop health occupation

  skills and become acquainted

  with the number and variety of

  careers in health services.

6. Prepare students for entry into post-secondary educational programs and institutions of higher education.

This document describes a process to develop an integrated curriculum relating Career Development laboratory instruction to theoretical instruction, and the application of this process to a Health Services cluster. Initial efforts in building the curriculum involved the development of an Occupational Analysis .(OA)/by the laboratory teacher. The OA is a systematic analysis of job performances required of occupations within a career cluster. An OA, the curriculum base, is translated into performance objectives (PO) which are sequentially grouped into developmental learning hierarchies, forming laboratory instructional units. Related performance objectives (RPO), paralleling laboratory instruction were developed by Science, Math, Social Studies, English and Foreign Language teachers. The final product of this process are integrated instructional Packages (IIP). i.e., interdisciplinary instructional units relating theoretical-academic concepts fo laboratory instruction tor specific Career Development clusters.

#### **FOREWORD**

"PROJECT RELEVANCE" has been sponsored by Federal Funds
from P.L. #90-576, and has been assigned to the Blue Hills
Regional Technical School District for the development of
an innovative curriculum. The final product of this effort
is designed to enhance the comprehensive academic preparation
and to compliment the career major preparation of Randolph
High School Career Development atudents who are now experiencing an introduction to career opportunities by way of
an exemplary educational process.

Recognizing that: an estimated 80% of our nation's secondary students will not graduate from a four year college program during the 70s (while only 10% receive comprehensive occupational education) and, further, that:

- -- 850,000 students drop out of high school annually (turned off)
- - 750,000 students are still experiencing general course content which does not provide for four year college preparation, nor entry level skill training.
- -- 850,000 students drop out of a four year college system annually during their first semester
- -- the educational dollar expenditure for the latter three categorical educational product deficiencies represents approximately 27 billion dollars, or 1/3 of our national gross expenditure for education.



It becomes readily apparent that our current educational process must be amended so as to provide adequate product goals which will allow every high school graduate the opportunity:

- to enter the world of work with entry
  level career skills, or
- to continue his/her education beyond at an institution, for specific career: preparation (the technical school the two yea: or four year college) with adequate secondary preparation
- to be engaged in an educational process that brings relevancy to classroom instruction

The total Exemplary Program grant to the Blue Hills-Randolph National Model Project outlines the following conditions of performance:

- I. A regional vocational technical school will, in addition to serving the specific occupational needs of an area, lend sufficient services to a network of comprehensive high schools for the promotion of career development.
- development and exploration for a large group of secondary students who are neither ready to make a commitment for specific career preparation (Blue Hills), nor are they ready for making a decision which

will limit their elective process for college preparation. (Adequate curriculum flexibility provides for delayed decision making)

- (Randolph High School) with exploration options will be developed jointly by the academic and vocational educator who will provide spin-off options to the regional vocational technical center (Blue Hills), and entry level skills for the high school graduate who prefers not to continue his/her education beyond high school at the technical school or the four year college, as well as adequate preparation for higher education.
- IV. That a general set of education specifications will be provided (The Commonwealth of Massachusetts), which will:
  - a.) include a complete set of floor plans,

    career laboratory design specifications,

    and
  - will compliment the cluster laboratory

    design now in operation in the Randolph

    High School
- V. That an innovative guidance component will be developed which will bring a meaningful program of career awareness to (K-6) children, as well as an effective software system of career exploration to the middle school concept, and a comprehensive

guidance support program for career development students experiencing a variety of career cluster options at the high school level.

- VI. That a fully documented curriculum development experiment be established, providing supportive academic subject matter for students indicating interest in the programs at the Randolph High School Career Development Center, and that such curriculum development be predicated on an Occupational Analysis of Career major selective subjects.
- VII. That such mutually developed curricula (prepared by both academic and vocational educators) bring relevance to mathematical, science and other academic program content, while also establishing a motivational relationship between the classroom content and the career laboratory experiences.
- That all innovative curriculum materials developed, as outlined above, be ultimately directed to student behavioral standards and conform to a performance objective format.

As this effort commences on June 25, 1973, and all participants undertake an exciting new experiment in "Project Relevance," my confidence in a successful outcome becomes increasingly more positive.

Please accept my sincere appreciation for your willingness and dedication to this most important introductory effort to establish relevance in our educational process.

To the following who totally endorse this concept, and who have, by their administrative sanction, allowed it to happen, I am deeply grateful.

The Blue Hills Regional Vocational School District Committee

The Randolph School Committee

Thomas L. Warren, Superintendent, Randolph Public Schools

Robert P. Nelson, Assistant Director, Blue Hills Regional Technical School

John Zoino, Assistant Superintendent, Randolph Public Schools

James Topham, Principal, Randolph High School

Arthur Mullaney, Director of Guidance, Randolph Public Schools

Frank Colosi, Career Development Coordinator, Randolph High School

> William A. Dwyer Superintendent-Director Blue Hills Regional Vocational Technical School District



#### PROJECT RELEVANCE PARTICIPANTS

William A. Dwyer Project Director Vincent L. Liuzzi Project Coordinato.

DEPARTMENT

**TEACHER** 

ACADEMIC

English

-...

English

Foreign Language (French)

Foreign Language (Spanish)

Math

Math

Science

Science

Science Science

Science

Social Studies

Social Studies

Guidance

Guidance

Christine Beagan

Michael Farrar

Lynn Harding

Joan W. Heller

Thomas W. Turner

Alfred Galante, Jr.

Arthur J. Bumpus

Andrew L. McCarthy

Edward H. Todd

John Fisher -

John Foley

Richard D. Coyle

Prudence H. Goodale

John Donovan, Jr.

Priscilla LaFayette

OCCUPATIONAL

Architectural Design

Automotive Careers

Business Careers

**Business Careers** 

Adolph V. Battista

Robert N. Russo

Marie L. Anzelmo

David B. Wahlgren



### PROJECT RELEVANCE FARTICIPANTS (Continued)

### DEPARTMENT

#### TEACHER

### OCCUPATIONAL

Electrical Careers

Graphic Arts

Health Careers (Home Ec)

Health Careers

Structural Careers-Metal

Structural Careers-Wood

Louis Calani

Andrew Riley

Carol Davenport

Ruth Perley

Alfred W. Varraso

R. Anthony Sullivan



THE OCCUPATIONAL ANALYSIS PROCESS

### OCCUPATIONAL ANALYSIS PROCESS

A systematic analysis of the tasks, duties, and responsibilities common to and specifically required of occupations within a career cluster. The analysis provides the teacher with the basis for determining curricular content by translating occupational tasks and duties into specific educational objectives.

When arranged in sequential format, outlining categorical tasks from simple to complex, the occupational analysis assists the teacher in developing educational performance objectives, developmental hierarchies, and activity packages that take into consideration student individual differences.

The primary purpose for using an occupational analysis as a starting point in the development of curricula is to facilitate a relationship between the world of work and school-based instruction with the goal of bringing relevancy to the learning process.

OCCUPATIONAL ANALYSIS COMPONENTS

Cluster: A group of related occupations combined

under a general group classification

Level: An instructional level of an Occupational

Analysis, arranged in order of learning

progress, or ability level - i.e.

Career Development Level |

i.e. Grade 10 (Health Careers C.D.)

Division: A major component grouping of a particular analysis - i.e. Health Careers (OA) - Nursing Procedures

Subdivisions: Secondary components levels of an.

Occupational Analysis Division

Unit: A sub-section of an Occupational.

Analysis sub-division outlining

more specific occupational

experiences

Tasks: A series of career performances as

required of the Occupational

Technician from an Occupational

Analysis unit outline

unit - BLOOD PRESSURE

Task - Take a blood pressure

Performance Objectives - (PO) - An occupational

task transformed into a specific
learning objective outlining the
required performance expectations
of the teacher from the student
expressed in observable and

measurable terms

Related Porformance Objectives (RPO): A performance

objective that defines a specific, theoretical, academic, or technological concept and is essentially related to the Career Performance Objective and the total career learning process.

### OCCUPATIONAL ANALYSIS COMPONENTS (Continued)

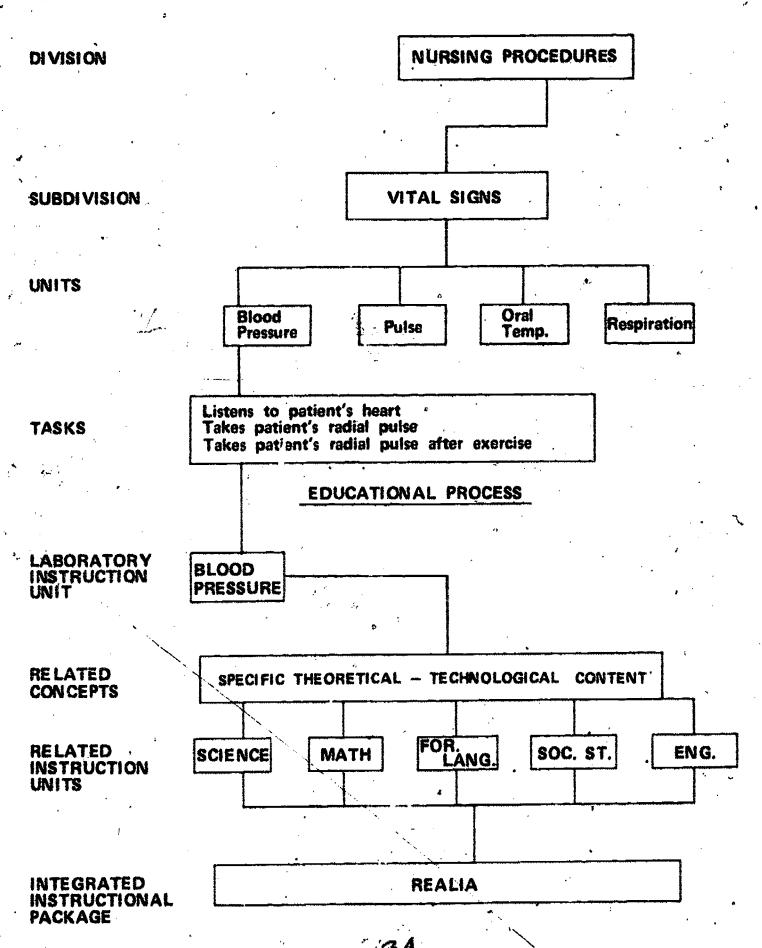
Realia: Activities, resources, etc. used to relate theoretical instruction to real life.

instructional Packages: Interdisciplinary
instructional units relating theoretical
concepts to laboratory instruction for
specific career development clusters.

### BLUE HILL REGIONAL CAREER EDUCATION CENTER

SCHEMATIC ILLUSTRATING THE TRANSITION FROM AN OCCUPATIONAL ANALYSIS TO AN EDUCATIONAL ANALYSIS FOR THE HEALTH SERVICE CLUSTER

#### OCCUPATIONAL ANALYSIS





OCCUPATIONAL ANALYSIS
HEALTH SERVICES CLUSTER

### OCCUPATIONAL ANALYSIS DIVISION LEVEL

DIVISION SUBDIVISIONS

SUBDIVISIONS

NURSING PROCEDURES

Vital Signs

Patient Comfort 
Bed Unit Care

Asepsis

Sterile Technique Charting Admission and Discharge

DIVISION LABORATORY PROCEDURES+

Dilutions
Solutions
Equipment
Specimen Analysis
Recording

DIVISION NOISIVIONS

Records and Medical Histories
Receiving Patients
Supply Orders

DIVISION SUBDIVISIONS Hospital Departments
Chronic Illness
Communicable Disease
Personal Health

DIVISION

SUBDIVISIONS

PHYSICAL AND OCCUPATIONAL THERAPY PROCEDURES

Body Mechanics
Ambulation

Disabilities Crafts

# NURSING PROCEDURES DIVISION SUBDIVISION LEVEL

DIVISION SUPDIVISION UNIT.(S) Nursing Procedures
VITAL SIGNS
Pulse
Temperature
Respiration
Blood Pressure

SUBDIVISION. UNIT(S)

PATIENT COMFORT

Lifting and Moving
Serving and Feeding
Oral Care
Hair Care
Skin Care

SUBDIVITION UNIT(S)

BED UNIT CARE
Operation of Bed
Cleaning Unit
Bed Making

SUBDIVISION UNIT(S)

ASEPSIS

Micro-organisms

Handwashing
Disinfectants and Antiseptics

SUBDIVISION UNIT(S)

STERILE TECHNIQUE
Isolation Unit
Equipment
Methods

SUBDIVISION UNIT(S)

CHARTING
Intake and Output
Vital Signs
Abbreviations

SUBDIVISÍON UNIT(S)

ADMISSION & DISCHARGE

Height & Weight

Histories

'Valuables

Personal Relationships

#### NURSING PROCEDURES (Continued) -

#### UNIT LEVEL

DIVISION SUBDIVISION UNIT(S) **TASKS**  Nursing Procedures. Vital Signs PULSE

Takes patient's radial pulse Takes patient's radial pulse after exercise ' Takes temporal, brachial, popliteal and dorsalis pedis pulse

- UNIT ' **TASKS**  ORAL TEMPERATURE

Cleans thermometer Takes different readings in three temperature waters Takes patient's oral temperature

UNIT TASKS RESPIRATION

Takes patient's respiration Takes patient's respiration after exercise

UNIT **TASKS**  BLOOD PRESSURE

Listens to patient's heart with stethoscope Takes patient's blood pressure at rest Takes patient's blood pressure ' after exercise

SUBDIVISION UNIT **TASKS**  Patient Comfort

LIFTING AND MOVING Lifts patient to sitting position Slides patient to side of bed

Assists patient to dangle legs at side of bed Assists patient out of bed to chair .

UNIT TASKS

SERVING AND FEEDING
Defines therapeutic diets Sets up a liquid tray Sets up a soft diet tray Assists patient to select food from menu

# NURSING PROCEDURES (Continued) UNIT LEVEL

DIVISION SUBDIVISION UNIT TASKS Nursing Procedures
Patient Comfort

SERVING AND FEEDING (Cont.)

Prepares patient to be serviced
Helps feed aphelpless patient

UNIT TASKS

ORAL CARE
Shows correct brushing of plastic set of teeth
Assists patient to brush teeth

UNIT TASKS HAIR CARE

Brushes and combs bed patient's hair Braids bed patient's hair Washes bed patient's hair

UNIT TASKS SKIN CARE

Defines cause of decubitus ulcers Administers a backrub Washes patient's hands, face & feet Applies créam to hands and manicures fingernails

UNIT TASKS

OPERATION OF BED

Demonstrates raising and lowering of bed
Demonstrates raising of head and foot of bed

UNIT . TASKS

CLEANING OF UNIT

Defines unit facilities
Takes apart and cleans bed with
disinfectants
Disinfects rest of unit

UNIT BED MAKING
TASKS Makes c

Makes closed unoccupied bed
Makes an open unoccupied bed
Makes an occupied bed
Makes a post operative bed

UNIT TASKS

MICRO-ORGANISMS

Defines 6 types of micro-organisms
Defines conditions best for growth
Lists ways disease spread in hospital
Lists ways disease controlled in
hospital



### NURSANG PROCEDURES (Continued)

DIVISION SUBDIVISION UNIT TASKS Nursing Procedures
Patient Comfort
HAND WASHING

Lists when hands washed Demonstrates proper method of hand washing

UNIT\_\_\_\_\_TASKS

DISINFECTANTS AND ANTISEPTICS

Explain use
Name some disinfectants and
antiseptics
Demonstrates method of use
of disinfectants and antiseptics

SUBDIVISION UNIT TASKS

Sterile Technique ISOLATION UNIT

> Sets up unit for isolation Care of unit when isolation ends

UNIT TASKS

EQUIPMENT

Defines reasons a patient is in isolation
Defines equipment used for isolation unit
Caring for isolation equipment

UNIT TASK

METHODS

Ruts on mask
Puts on and takes off isolation gown
Takes care of isolation room waste
Takes care of isolation room linen

SUBDIVISION UNIT TASKS

Charting :

INTAKE AND OUTPUT

Defines reasons for intake and output Keeps a 24 hour record of intake and output

UNIT TASKS

VITAL SIGNS

Charts temperature, pulse and respiration Charts blood pressure

UNIT TASKS

ABBREVIATIONS

Defines time abbreviations
Defines department abbreviations
Defines patient orders
abbreviations

## NURSING PROCEDURES (Continued) UNIT LEVEL

DIVISION SUBDIVISION UNIT TASKS Nursing Procedures
Admission and Discharge
HEIGHT AND WEIGHT
Takes patients using

Takes patients neight and records
Takes patients weight and records

UNIT TASKS

MEDICAL HISTORIES

Defines terms on forms Takes own medical history Takes patients medical history

UNIT TASKS

VALUABLES

Records patients valuables Stores patients valuables Returns patients valuables

UNIT TASKS

PERSONAL RELATIONSHIPS
Introduces patient to unit
Helps dress and undress
patient

# LABORATORY PROCEDURES DIVISION SUBDIVISION LEVEL

DIVISION SUBDIVISION UNIT(S) Laboratory Procedures

DILUTIONS

Instruments
Pipets
Calculations

SUBDIVISION UNIT(S)

Solute and Solvent
Weighing
Catculations
Methods

SUBDIVISION UNIT(S)

Microscope
Glassware
Balance
Urinometer
Hemacytometer
Wrapping

SUBDIVISION. UNIT(S)

SPECIMEN ANALYSIS
Blood
Micro-organisms

SUBDIVISION UNIT(S)

RECORDING
Laboratory Forms
Requisitions

DIVISION SUBDIVISION UNIT(S) Medical Business Procedures

RECORD KEEPING

Medical Histories

Patient Files

Medical Ethics

SUBDIVISION ... UNIT(S)

Preparation of patient Personal relationships

# LABORATORY PROCEDURES DIVISION SUBDIVISION LEVEL

NOISIVIGEUS . NOISIVIGEUS . - (2) TINU Medical Business Procedures
SUPPLY ORDERS
Inventory
Ordering Supplies

# LABORATORY PROCEDURES DIVISION UNIT LEVEL

DIVISION
SUBDIVISION
UNIT(S)
TASKS

Laboratory Procedures
Dilutions
INSTRUMENTS
Identify volumetric gi

Identify volumetric glassware Measure fluids in glassware

UNIT TASKS

PIPETS

Identify volumetric pipets
Identify graduated pipets
Measure fluids in pipets
Obtain meniscus

UNIT TASKS

CALCULATIONS

Makes a wearer solution from a stock solution
Work out formulas for solutions

SUBDIVISION UNIT TASKS Solutions
SOLUTE AND SOLVENT

Name solutes Name solvents Makes a mixture Makes an emulsion

UNIT TASKS

WEIGHING
Different scales
Balance scale
Weigh solutes



### LABORATORY PROCEDURES (Continued) UNIT LEVEL

DIVISION
SUBDIVISION
UNIT
TASKS

Laboratory Procedures
Solutions
CALCULATIONS
Calculate % solutions
Calculate solute meets

UNIT TASKS Calculate % solutions
Calculate solute needed
Calculate solvent needed

SUBDIVISION UNIT

Equipment MICROSCOPE

**METHODS** 

UNIT TASKS Demonstrate use of microscope Focus and observe prepared slides

Obtain meniscus with a solvent

Mix solutions - use of parafilm

Make different % solutions

UNIT TASKS GLASSWARE

Identify volumetric glass
Identify graduated glass
Measure fluids - obtain meniscus

UNIT TASKS BALANCE

Demonstrate working of balance Weigh solutes in grams

UNIT TASKS URINOMETER UNIT

Define specific gravity
Use urinometer to obtain specific gravity of milk, water and sugar solutions

**HEMACYTOMETER** 

Pipette milk solutions
Pipette drop of blood
count red and white blood cells



# LABORATORY PROCEDURES (Continued) " UNIT LEVEL

DIVISION SUBDIVISION : UNIT TASKS Laboratory Procedures Specimen Analysis BLOOD

Type blood
Identify white blood cells
with microscope
Identify red blood cells
Dilute drop of blood with
Hemacytometer
Prepare blood slide
Stain a blood slide
Determine hemogrobin
Obtain blood samples

UNIT TASKŞ MICRO-ORGANISMS
Observe prepared slides
Define micro-organisms to
diseases

DIVISION \
SUBDIVISION
UNIT
TASKS

Laboratory Procedures Recording

LABORATORY FORMS

Defines different lab torms Explains terminology of forms Fills in for specific tests sent to labs

UNIT TASKS

REQUISITIONS

Supply Orders
Specimen identification
Attaches form to specimen

SUBDIVISION UNIT TASKS Record Keeping
PATIENT FILES

Takes medical histories
Takes patient's complaint
Define what belongs in
patient's files

UNIT TASKS MEDICAL ETHICS

Defines legal responsibilities
Role play awkward subjects
Defines what cannot be
discussed with patient by
student



# LABORATORY PROCEDURES (Continued) UNIT LEVEL

DIVISION SUBDIVISION UNIT TASKS Medical Business Procedures
Receiving Patients
PREPARATION OF PATIENT

Takes history - complaint
Role play - introduction
Takes height and weight
- forms
Helps undress and prepare
for examination

UNIT TASKS PERSONAL HELATIONSHIP

Introduces - role play
Role play - putting a nervous
patient at ease
Role play - a child entering
dentist's office for first
time

SUBDIVISION UNIT TASKS

Supply Orders
INVENTORY

Takes inventory of unit Takes inventory of glassware

UNIT TASKS

ORDERING SUPPLIES

Orders different glassware from catalogues Fills in catalogue forms



# DIAGNOSTIC PROCEDURES DIVISION SUBDIVISION LEVEL

DIVISION SUBDIVISION UNIT(S)

Diagnostic Procedures

HOSPITAL DEPARTMENTS

Organization

Names and Function

SUBDIVISION UNIT(S)

CHRONIC & DISABLING DISEASE
Body Systems
Diagnosis, Treatment

SUBDIVISION UNIT(S)

Disease Process
Diseases
Diagnosis, Treatment

SUBDIVISION UNIT(S)

PERSONAL HEALTH
Skin Care
Eye Care
Ear Care

DIVISION

SUBDIVISION UNIT(S)

Physical and Occupational
Therapy Procedures
BODY MECHANICS
Standing and Lifting
Bending and Pushing

SUBDIVISION UNIT(S)

AMBULATION Crutches Wheelchalr

SUBDIVISION UNIT(S)

Paralysis
Broken Bones

DIVISION SUBDIVISION UNIT TASKS Diagnostic Procedures
Hospital Departments
ORGANIZATION
Name personnel
Name departments of hospital
laboratories



#### DIAGNOSTIC PROCEDURES DIVISION. UNIT LEVEL

DIVISION SUBDIVISION UNIT **TASKS**  Plagnostic Procedures Huspital Departments **FUNCTION** 

Lists departments and functions of personnel Specialists in medicine

SUBDIVISION UNIT **TASKS**  Chronic and Disabling Disease BODY SYSTEMS

Lists organs of digestive system Lists organs of reproductive system Lists organs of execretory system Takes apart and identifies organs in torso Labels diagrams

TASKS

DISEASES, DIAGNOSIS, TREATMENT Discusses ulcer, diabetes hypertension, kidney disease Discusses treatment of diseases Discusses symptoms of disease

SUBDIVISION UNIT **TASKS** 

Communicable Disease

DISEASE PROCESS

Defines different transmissions of disease Defines entry and exit in body of disease organisms

UNIT **TASKS**  DIAGNOSIS AND TREATMENT

Names symptoms Names diagnostic procedures Names treatments Discusses organisms, transmission, diagnosis and treatment of V.D. Collects newspaper articles - - current Communicable diseases

SUBDIVISION UNIT **TASKS**  Personal Health

SKIN CARE

Manicures and creams hands Defines layers of skin Defines skin problems

## DIAGNOSTIC PROCEDURES (Continued) UNIT LEVEL

DIVISION SUBDIVISION UNIT TASKS Diagnostic Procedures
Personal Health
EYE

Defines how eye "sees"
Tests for color blindness
Tests pupil with penlight
Tests for blind spot
Tests vision using eye charts

UNIT TASKS EAR

Defines how ear "hears" Tests using tuning fork Defines reasons for deafness

DIVISION SUBDIVISION UNIT TASKS Physical and Occupational Therapy Procedures
Body Mechanics
LIFTING AND STANDING

Practice proper standing Practice proper lifting and moving objects and patients

UNIT

PUSHING AND BENDING

Logroll a patient Moving to wheelchair

SUBDIVISION UNIT TASKS Ambulation CRUTCHES

Stands with crutches
Measure crutches
Practice gaits with crutches
Practice carrying articles

UNIT TASKS WHEELCHAIR

Practice working of chair Practice turning Practice helping patient in and out of chair

SUBDIVISION UNIT TASKS Disabilities PARALYSIS

> Define causes of paralysis Collect newspaper articles



# PHYSICAL AND OCCUPATIONAL THERAPY PROCEDURES UNIT LEVEL .

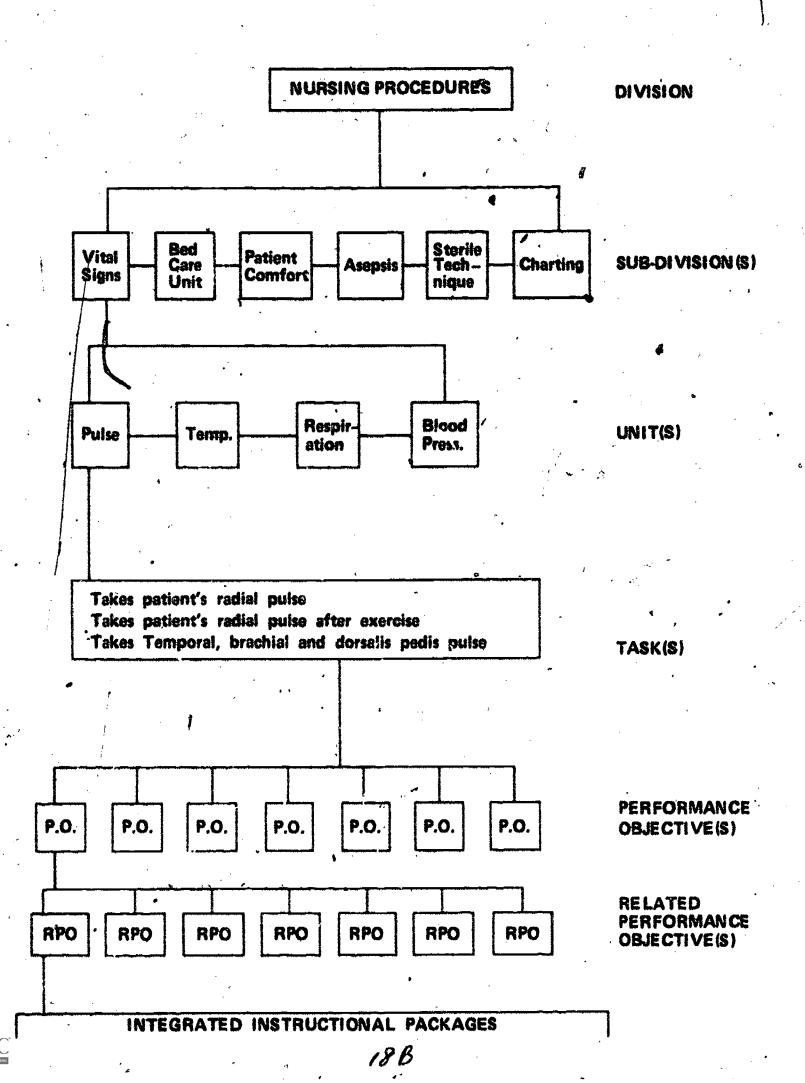
UNIT TASKS BROKEN BONES

View X-Rays
Apply arm slings
Apply plastic leg and arm restraints

INTEGRATED INSTRUCTIONAL PACKAGE

BLOOD PRESSURE UNIT

# OCCUPATIONAL ANALYSIS (O.A.) SCHEMATIC of the HEALTH SERVICES CAREER CLUSTER



71	1.D. #064
Cluster:	HEALTH SERVICE
Level:	
O.A. Division:	NURSING PROCEDURES
O.A. Subdivision:	VITAL SIGNS
O.A. Unit:	BLOOD PRESSURE
Performance Objective No.	

Given a mercury-gravity manometer the student will identify the scaled column of mercury, rubber tubing, cuff, rubber bulb and pressure release knob.

# Prerequisite Performance Objectives: 🎺 🛴

Knowledge of circulation and action of heart as a pump
Why blood pressure is important

#### Resources:

'Mercury-gravity manometer

- 1. Display mercury gravity manometer
- 2. Hand out diagrams which have numbers next to parts
- 3. Label parts in diagram while pointing to display model

•	1.D. #065
Cluster:	HEALTH SERVICES
Level:	1
O.A. Division:	NURSING PROCEDURES
O.A. Subdivision:	VITAL SIGNS .
O.A. Unit:	BLOOD PRESSURE
Performance . Objective No.	<b>.</b> 2

Given a mercury manameter and teacher pointing to different readings on the mercury scale, the student will correctly identify the readings

#### Prerequisite Performance Objectivas:

Student can demonstrate parts of a manometer Student can read a meniscus Student can read scale

#### Resources:

Mercury manometer

- 1. Display mercury manometer
- 2. Explain scale goes from 0-300 in 10's even numbers on one side odd on the other
- 3. Draw diagram on board filling in with slashes
- 4. Point to different slashes and ask student the reading



	i.D. #066
Cluster:	HEALTH SERVICES
Level:	
O.A. Division:	NURSING PROCEDURES
O.A. Subdivision:	VITAL SIGNS
O.A. Unit:	BLOOD PRESSURE -
Performance Objective No.	3

The student shall locate their own brachial artery in left arm by using their two middle fingers of their right hand, while sitting down with left arm extended and supported by a firm surface.

#### Prerequisite Performance Objectives:

Has located radial pulse Knows significance of pulse in the circulatory system

#### Resources:

Student - chair and table
Arm diagram & pull out charts which
show where brachial artery is found
under the skin

- 1. Student sitting Left arm extended and supported on table
- 2. Take middle two fingers of right hand pulpate and feel for brachial pulse in left inside elbow



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Cluster:	HEALTH SERVICES
Level:	<u> </u>
O.A. Division:	NURSING PROCEDURES
O.A.Subdivision:	VITAL SIGNS
O.A. Unit:	BLOOD PRESSURE
Performance Objective No.	4

Given a blood pressure cuff and partner, the student will apply the cuff to the upper left arm of partner who is sitting with their left arm extended and supported by a firm surface

#### Prerequis e Performance Objectives:

Student can demonstrate parts of manometer Student can take out manometer from its casing Has observed a demonstration of applying cuff

#### Resources:

Mercury gravity manometer table and chair partner

- 1. Place partner in sitting position with sleeves rolled up
- 2. Extend their left arm on table
- 3. Unfold cuff
- 4. Place one end of cuff one inch above the elbow
- 5. Wrap cuff around arm



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Cluster:	HEALTH SERVICES	
Level:		
O.A. Division:	NURSING PROCEDURES	
O.A. Subdivision:	VITAL SIGNS	
O.A. Unit:	BLOOD PRESSURE	
Performance Objective No.	5 5	

Given a person sitting with mercury manometer cuff applied to upper left arm, the student shall locate the left brachial artery, and place stethoscope over this artery

# Prerequisite Performance Objectives:

Can place person in correct position Can use and clean a stethoscope Has located a radial pulse Knows significance of pulse and can locate brachial pulse

#### Resources:

Partner
Table and chair
Manometer
Stethoscope

- 1. Place person in correct position
- 2. Apply cuff to upper left arm
- 3. Take two fingers of right and palpate the left elbow until feel the pulse of brach artery
- 4. Place coscope over area where the brachlai pulse was felt



Cluster:	HEALTH SERVICE
Level:	
O.A. Division:	NURSING PROCEDURES
O.A. Subdivision:	VITAL SIGNS
O.A. Unit:	BLOOD PRESSURE
Performance Objective No.	6

Given the mercury manometer with cuff applied to upper left arm of another student who is in correct sitting position with arm extended and supported, the student will pump air into the cuff until the mercury reading is 140 mm HG, and then promptly release the pressure.

#### Prerequisite Performance Objectives:

Demonstration
Knows how to apply cuff
Knows how to read mercury scale
Knows how to pump air in cuff
and release pressure

#### Resources:

Two students Chair and table Mercury Manameter

- 1. Position student
- 2. Apply cuff
- 3. Make sure release knob is closed
- 4. Pump air with rubber bulb into cuff
- 5. Watch until mercury reads 140 mm
- 6. Turn release knob - therefore releasing air out of cuff



Cluster: HEALTH SERVICES

Level: I

O.A. Division: NURSING PROCEDURES

O.A. Subdivision: VITAL SIGNS

O.A. Unit: BLOOD PRESSURE

Performance

#### Performance Objective:

Given a mercury manometer and patient seated, the student will record the systolic and diastolic blood pressure accurately.

Objective No.

#### Prerequisite Performance Objectives:

- 1. Has cleaned ear plugs of stethoscope
- 2. Knows parts of mercury manometer
- 3. Has listened to heartbeat with stethoscope
- 4. Can locate brachial artery
- 5. Has taken readings on scale
- 6. Has inflated and deflated cuff using pressure release knob

#### Resources:

Partner
Table and chair
Mercury manometer
Stethoscope
Cotton and alcohol

- Place partner in sitting position, left arm extended resting on table, sleeve rolled up
- 2. Apply cuff
- 3. Locate left brachial artery
- 4. Place stethoscope over artery
- 5. Inflate cuff to 140 mm HG
- 6. Deflate cuff slowly until hear heartbeat first time record reading
- 7. Continue to deflate cuff while hearing heartbeat
- 8. Record reading last time heartbeat heard



# RELATED CONCEPTS

MATH .

Metric System Millimeters of HG ENGLISH.

Vocabulary

Systolic Diastolic Mercury Manometer Stethoscope Brachial

SCIENCE

Circulation systolic & diastolic
pressure
heart as a pump
blood as a transportation
system
components of blood

SOCIAL STUDIES

Changes in blood pressure due to emotional response



#### RELATED PERFORMANCE OBJECTIVE UNITS

The preceding Career Development Unit and Related Concepts form the basis for the development of Related Performance Objective Units. The process involves a dialogue between the laboratory (career) teacher and academic teachers on the relevant theoretical concepts and activities in order to determine the necessary integrated academic and laboratory instruction.

Cluster:	HEALTH SERVICES
Level:	CD I
O.A. Division:	NURSING PROCEDURES-
O.A. Subdivision:	VITAL SIGNS
Related Unit:	CIRCULATION
Related Performance Objective No.	
Related Area	SCIENCE

Math-Science-Other

I.D. #Sc205

#### Related Performance Objective:

Given a slide and a microscope with the illuminator turned off, the diaphram improperly set, the objective out of place, and a dirty occular, the student should be able to place the microscope in operational condition and properly focus on the slide on low power

#### Prerequisite Performance Objectives:

Ability to identify the various major parts of the microscope Ability to turn on the illuminator

Ability to properly set the diaphram

Ability to clean the occular

Ability to focus the objective

#### Resources:

Microscope, lens paper, lens cleaner, transparency of microscope

#### Instructional Presentation Components:

Explain how to do above using transparency of microscope Edentify all major parts of microscope Have students identify each part and explain function Discuss how to make microscope operational and how to focus

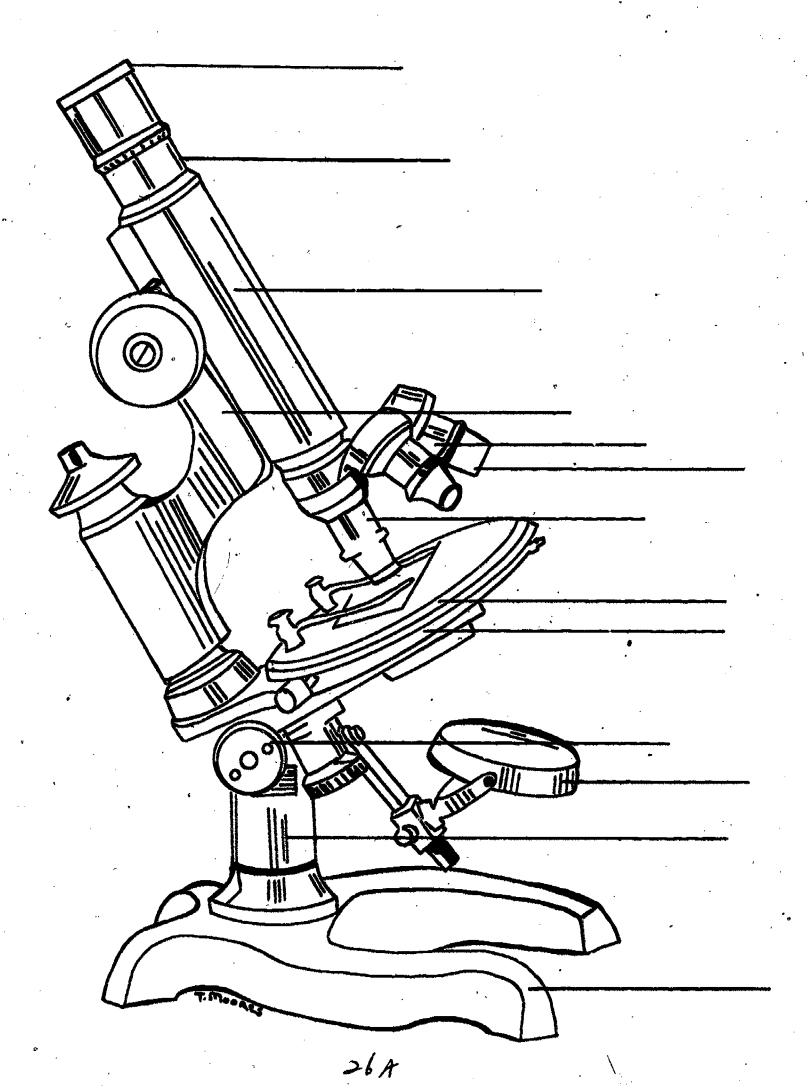
#### Student Application Components:

The student will be able to describe the operational procedures (with 85% accuracy)

to identify each part and explain each function to prepare microscope for operation and focus



# HEALTH SERVICE, BLOOD PRESSURE, SCIENCE, CIRCULATION



ERIC Full Text Provided by ERIC

	1.D.#Sc203	
Cluster:	HEALTH SERVICES	
Level:	CD 1	
O.A.Division:	NURSING PROCEDURES	
O.A. Subdivision:	VITAL SIGNS	
Related Unit:	CIRCULATION	
Related Performance Objective No.:	2	
Related Area	SCIENCE	_
	Math-Science-Other	

Given a microscope, a live frog, and a frog holder, the student with a light source will be able to observe the flow of blood through the veins in the web of a frog's foot

#### Prerequisite Performance Objective:

Proper use of the microscope

#### Resources:

Microscope with light source, live frog, frog holder

- i. Explain how to use equipment
- 2. Have students do above

# HEALTH SERVICE, BLOOD PRESSURE, SCIENCE, CIRCULATION

# Circulation in frog's Leg

- I. Give directions for placing frog on frogholder
- 2. Give directions for placing frog holder on microscope
- 3. Give directions for observing circulation along with questions to be answered based on observations

	TION POLICY
Cluster:	HEALTH SERVICES
Level:	CD I
O.A. Division:	NURSING PROCEDURES
O.A. Subdivision:	VITAL SIGNS
Related Unit:	CIRCULATION
Related Performance Objective No.	3
Related Area	SCIENCE Math-Science-Other

Given a sample of the solid components of human blood, a microscope, and a glass slide student will identify the various cells present

#### Prerequisite Performance Objectives:

Knowledge of the types of blood cells. Know how to properly use microscope

#### Resources:

Blood cells, microscope, glass slide, color chart showing components of blood

#### Presentation Components:

1. Discuss the structure of blood using color chart



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Cluster:	HEALTH SERVICES .
Level:	CD_!
-O.A. Division:	NURSING PROCEDURES
O.A. Subdivision:	VITAL SIGNS
Related Unit:	CIRCULATION
Related Performance Objective No.	4
Related Area:	SCIENCE
	Math-Scionos Other

Given a sample of whole blood in a centrafuge tube and a centrafuge the student should be able to demonstrate the blood is a fluid composed of a solid and liquid portion

Prerequisite Performance Objectives:

Ability to use centrafuge

Resources:

Centrafuge, centrafuge tubes, sample whole blood

- 1. Discuss the composition of blood
- 2. Demonstrate how to use Centrafuge
- 3. Have students spin down blood sample



# HEALTH SERVICE, BLOOD PRESSURE, SCIENCE, CIRCULATION

#### LAB ACTIVITY OBSERVING HUMAN BLOOD CELLS

- 1. Give directions for preparing and staining slide
- 2. Give directions for observing cells
- 3. Have student draw cells observed

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Cluster:	HEALTH SERVICES
Level:	CD I
O.A. Division:	NURSING PROCEDURES
O.A. Subdivision:	VITAL SIGNS
Related Unit:	CIRCULATION
Related Performance Objective No.	6
Related Area	SCIENCE Math-Science-Other

Given a diagram of the heart, the student should be able to label the parts of the heart and write a brief description of its function

# Prerequisite Pertormance Objectives:

Knowledge of the unctions of the parts of the heart Ability to locate parts of heart

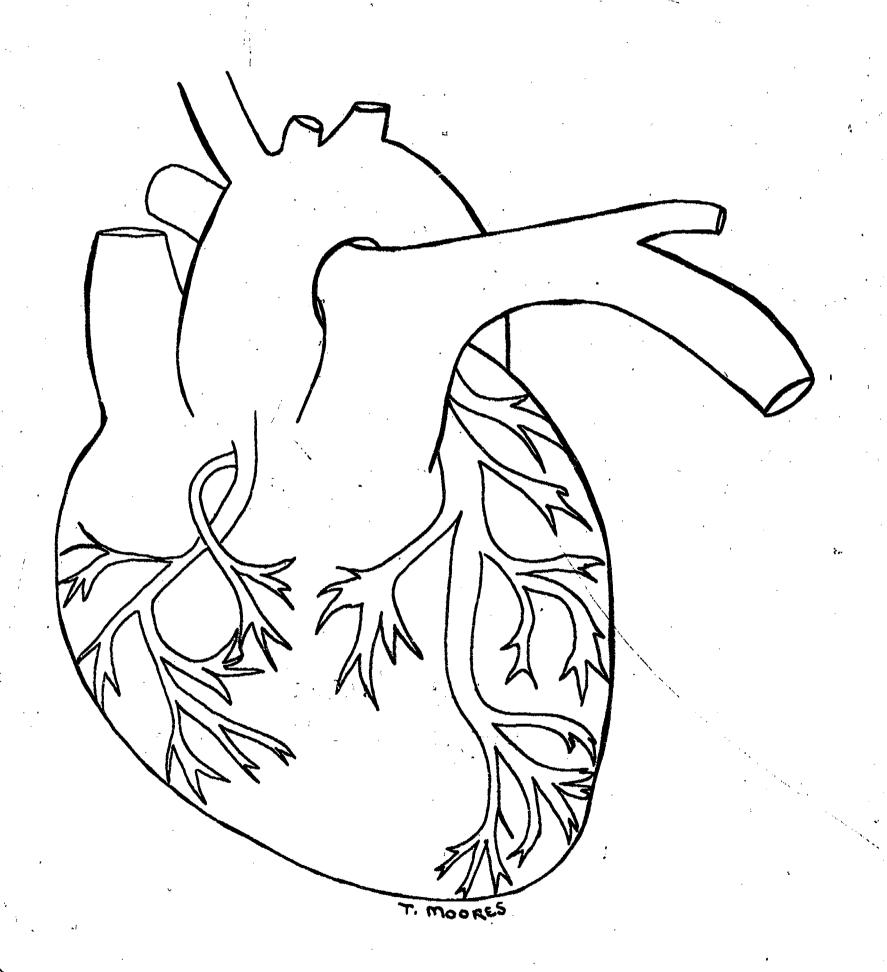
#### Resources:

Transparency of heart Heart Model Worksheet

- 1. Explain flow of blood through heart using transparency
- 2. Stress fact that valves closing & force of heart contracting creates pressure
- 3. Demonstrate using heart model



# HEALTH SERVICE, BLOOD PRESSURE, SCIENCE, CIRCULATION





	1.0.%2CAA
Cluster:	HEALTH SERVICES
Level:	CD I
O.A. Division:	NURS ING PROCEDURES
O.A. Subdivision:	VITAL SIGNS
Related Unit:	CIRCULATION
Related Performance Objective No.	7
Related Area	SCIENCE Math-Science-Other
	WATH #5C LENCE#UTHEL

Given a diagram of the human heart the student will trace the flow of blood from the right auricle through the circulatory system and back to the right auricle using arrows.

#### Prerequisite Performance Objectives:

Path of blood through circulatory system

#### Resources:

Diagram of Circulatory System Transparency as above

- 1. Show transparency, trace path of blood
- 2. Pass out sheets have students fill in



Cluster:	HEALTH SERVICE
Level:	CD I
O.A. Division:	NURSING PROCEDURES
O.A. Subdivision:	BLOOD PRESSURE
Related Unit:	SCALES
Related Performance	
Objective No.	1
Related Area	MATHEMATICS
	Math-Science-Other

1.D.#ScMA304

#### Related Performance Objective:

Given various types of scales, the student will properly read a linear scale to the nearest graduation

#### Prerequisite Performance Objectives:

Understanding of fractions and decimal values

#### Resources:

Ruler, tape, electronic meters, pressure gauges, architects rule, thermometer, etc.

- 1. Find and name the readings on various linear scales
- (manometer for systolic and diastolic blood pressure measurements)



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Cluster:	HEALTH SERVICES	
Level:	CD I	
O.A. Division:	NURSING PROCEDURES	
O.A. Subdivision:	BLOOD PRESSURE	
Related Unit:	SCALES	
Related Performance Objective No.	2	
Related Area:	MATHEMATICS	

The student shall relate the meaning of prefixes used in the metric system

#### Prerequisite Performance Objectives:

Decimal place value

#### Resources:

A metric measurement using prefix

#### Presentation Components:

Decimal place value chart with appropriate prefixes marked



# HEALTH SERVICE, BLOOD PRESSURE, MATH, SCALES

1. These readings were recorded during an examination:

height - 5' 7"

weight - 146 lbs.

temperature - 98.90f

Convert these readings to metric units

2. Given a blood pressure reading of 136/92, determine the pulse rate

Answer: 136-92 = 44

	1.0.101
Cluster:	HEALTH SERVICES
Level:	CD I
O.A. Division:	NURSING PROCEDURES
O.A. Subdivision:	BLOOD PRESSURE .
Related Unit:	VOCABULARY
Related Performance Objective No.	J
Related Area:	ENGLISH Math=Sclence=Other

The student shall be able to spell, define and use the given vocabulary words per unit correctly in a complete sentence

#### Prerequisite Performance Objectives:

Student has learned spellings Student has learned definitions

#### Resources:

Vocabulary list of Given Unit

- 1. Teacher will be supplied with vocabulary list from C.D. teacher
- 2. Vocabulary list wili be distributed to students
- 3. Students will copy words correctly in notebook
- 4. Students will copy definitions into notebook
- 5. Teacher and students will discuss the definitions of the vocabulary words
- 6. Students will use vocabulary words in a sentence which reflects the proper contextual definition



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Cluster:	HEALTH SERVICES
Level:	CD 1
O.A. Division:	NURS ING PROCEDURES
O.A. Subdivision:	ORAL COMMUNICATION
Related Unit:	ORAL PEMONSTRATION :
P lated Performance .bjective No.	2
Related Area:	ENGLISH Math-Science-Other
:	Main-ocidice-Vinei

The student shall be able to present an oral demonstration speech of five minutes in length using an implement indigenous to a chosen field

# Prerequisite Performance Objectives:

Two minute oral presentation.
Suitable Vocabulary
Outline

#### Rosources:

Source applicable for demonstrating purposes possibly Career Laboratory Facilities ...

- 1. Student will be given examples of demonstration techniques
- 2. Teacher will present an oral demonstration (i.e. tape recorder)
- 3. Student will prepare an outline of his speech



	1.D.#18
Cluster:	HEALTH SERVICES
Level:	CD I
O.A. Division:	NURSING PROCEDURES
O.A. Subdivision:	BLOOD PRESSURE
Related Unit:	VOCABULARY
Related Performance Objective No.	1
Related Area	LANGUAGE
	Math-Science-Other

The student will be able to communicate with the person in the foreign language in order to take his blood pressure

#### Prerequisite Performance Objectives:

Vocabulary for parts of the body Basic greetings

#### Resources:

Manometer

- 1. Teacher presents model sentences
- 2. Student imitates teacher
- 3. Role-playing



# HEALTH SERVICE, BLOOD PRESSURE, FOREIGN LANGUAGE, VOCABULARY

UNIT:

BLOOD PRESSURE

English	French	<u>Spanish</u>
Sit up	Mettez-vous debout	Levantese
Put your arm on the bed	Mettez le bras sur	Ponga el brazo en la
	le lit	cama
Put your arm on the table	Mettez le bras sur la	Ponga el brazo en la
	table	mesa
I am going to take your	Je vais jous prendre la	Voy a tomar la presion
blood pressure	tension	arterial

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Cluster:	HEALTH SERVICES
Level:	CD
O.A. Division:	NURSING PROCEDURES
O.A. Subdivision:	VITAL SIGNS
Related Unit:	ELOOD PRESSURE
Related Performance Objective No.	1
Related Area	SOCIAL STUDIES
	Math-Science-Other

Given the basic knowledge of what vital signs are, the student will define the terms: biological, frustration, fear, emotions, stress, environment, heredity, group and parental pressure and society

# Prerequisite Performance Objectives:

None

#### Resources:

1. Webster's dictionary

2. Psychology, Richard L. Morgan,
self-instruction unit 7 on emotions
unit 8 on stress
unit 23 on child development.
unit 22 on individuals in a group

3. Class discussions & teacher information

- 1. Students will use resources available to define terms given
- 2. Students will write the definitions in their notebooks in the vital signs section

HEALTH SERVICES
CD I
NURSING PROCEDURES
VITAL SIGNS
BLOOD PRESSURE
2
SOCIAL STUDIES

Given a variety of resource materials, the student will list the given terms under the appropriate categories; physical, psychological and environmental

#### Prerequisite Performance Objectives:

Defining terms; biological; frustration; group and parent pressure; fear; stress; environment; heredity; and society

#### Resources:

RPO #1 Teacher information

#### Presentation Components:

Students will draw a chart with the three category headings listed above and write in the proper terms under the proper category. This is to be kept in student's notebooks under the vital signs section.



·	TIDITIES	_
Cluster:	HEALTH SERVICES	_
Level:	CD I	_
O.A. Division:	NURS ING PROCEDURES -	
O.A. Subdivision:	VITAL SIGNS	_
Related Unit:	BLOOD PRESSURE	
Related Performance Objective No.	3	_
Related Area	SOCIAL STUDIES Math-Science-Other	
	high machelicaOther	

Given a variety of resource materials the student will isst physical, psychological and environmental factors that affect vital signs

#### Prerequisite Performance Objectives:

 Knowledge of what physical, psychological and environmental factors exist

#### Resources:

RPO X's | & 2

- 1. Student will use resource materials available
- 2. List compiled in students notebooks

	Cluster:	HEALTH SERVICES	<del> </del>
	Level:	CD 1''	•••
	O.A. Division:	NURSING PROCEDURES	\
	O.A. Subdivision:	VITAL SIGNS	,,
•	Related Unit:	BLOOD PRESSURE	
	Related Performance		
	Objective No.	4.	·.
	Related Area	SOCIAL STUDIES	
		14 11 0 - 1	4

1.D.#127

Related Performance Objective:

Given a list of factors that affect vitai signs, students will discuss factors and develop a combined list

Prerequisite Performance Objectives:

Student lists of factors that they have compiled

Resources:

None

Presentation Components:

Class discussion led by teacher

	1.D.#128
Cluster:	HEALTH SERVICES
Level:	CD I
-O.A. Division:	NURSING PROCEDURES
O.A. Subdivision:	VITAL SIGNS .
Related Unit:	BLOOD PRESSURE
Related Performance Objective No.	5
Related Area:	SOCIAL STUDIES Math-Science-Other
-	MATHEDCT ENGINE UTDEC

Given a sample experiment, the students will design an experiment to determine the effects of specific factors on vital signs

#### rerequisite Performance Objectives:

The combined list of factors

#### esources:

Sample experiment

- Students will observe experiment \
- 2. Students will work in small groups working on a variety of experiments

	1.01//127
Cluster:	HEALTH SERVICES
Level:	CD I
O.A. Division:	NURSING PROCEDURES
O.A. Subdivision:	VITAL SIGNS
Related Unit:	GLOOD PRESSURE
Related Performance Objective No.	6
Related Area	SOCIAL STUDIES
•	Math-Sclence-Other

Given a specific experimental design the students will conduct an experiment demonstrating the effects of one factor on vital signs

# Prerequisite Performance Objectives:

Knowledge of the experimental design

Resources:

Sample experimental design

Presentation Components:

Experimenters and subjects in groups



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Cluster:	HEALTH SERVICES	
Level:	CD I	
O.A. Division:	NURSING PROCEDURES	· .
O.A.Subdivision:	VITAL SIGNS	
Related Unit:	BLOOD PRESSURE	
Related Performance Objective No.	7	
Related Area	SOCIAL STUDIES	
4	Mathewr LoncoellThor	

Having conducted the experiment and with knowledge of how to write a short summary each group will prepare a short summary describing the results of the experiment

rerequisite Performance Objectives:

The experiment

esources:

resentation Components:

Written or typed out to be used in class discussions



	1.D.#131	
Cluster:	HEALTH SERVICES	
Level:	CD I	
O.A. Division:	NURSING PROCEDURES	
O.A. Subdivision:	VITAL SIGNS	,
Related Unit:	BLOOD PRESSURE	
Related Performance Objective No.	8	
Related Area	SOCIAL STUDIES	
	Math-Science-Other	•

Given the results of an experiment each group will present the results of their findings to the class in a panel discussion

Prerequisite Performance Objectives:

Experiment and results

Resources:

Summary of the results

# Volumes of Related Interest

# I - The Satellite Plan

# Sample Curricula for a Cluster of Career Development Options

II - Health Services

III - Electro Lab

IV - Architectural Design

V - Graphic Arts

VI - Automotive

VII - Construction

VIII - Business

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Canton, Mass. 02021

